

SEQUENCE LISTING

<110> Simmons, Carl R.

<120> Nucleic Acids Encoding Defense Inducible
Proteins and Uses Thereof

<130> 35718/242990

<141> 02/28/2002

<150> 60/272,227

<151> 02/28/2001

<160> 25

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 676

<212> DNA

<213> Zea mays

<220>

<221> CDS

<222> (89)...(367)

<400> 1

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tcggaggaca caccaagcgt ctgcacca atg gct tac tac cag gag gtg gac      112
                               Met Ala Tyr Tyr Gln Glu Val Asp
                               1               5

tac tgc tcg gag gag gtg agg tcg gtg gcc ccg gcc ggc ttc ggc cgc      160
Tyr Cys Ser Glu Glu Val Arg Ser Val Ala Pro Ala Gly Phe Gly Arg
    10               15               20

cac ggc ggc ggc gtc cag cag cac gtc gtc aag gag aag ttc gag gag      208
His Gly Gly Gly Val Gln Gln His Val Val Lys Glu Lys Phe Glu Glu
    25               30               35               40

gtc gac acg gta tca cgc gcc ggc gcc aac cac cac cac cac cat ggt      256
Val Asp Thr Val Ser Arg Ala Gly Ala Asn His His His His His Gly
    45               50               55

cac cac ggc ggc cac ggc ttc gtg gtg cgc gag acc agg gtc gag gag      304
His His Gly Gly His Gly Phe Val Val Arg Glu Thr Arg Val Glu Glu
    60               65               70

gac atc aac acc tgc acc ggc gag gtc cac gag cgc agg gag agc ttc      352
Asp Ile Asn Thr Cys Thr Gly Glu Val His Glu Arg Arg Glu Ser Phe
    75               80               85

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cat ggt cac cac ggc ggc cac ggc ttc gtg gtg cgc gag acc agg gtc 305
 His Gly His His Gly Gly His Gly Phe Val Val Arg Glu Thr Arg Val
 55 60 65 70

gaa gag gac atc aac acc tgc acc ggc gag gtc cac gag cgc agg gag 353
 Glu Glu Asp Ile Asn Thr Cys Thr Gly Glu Val His Glu Arg Arg Glu
 75 80 85

agc ttc ctc gcc agg gct aac tgagccgccc ggcggccggc atccacgccc 404
 Ser Phe Leu Ala Arg Ala Asn
 90

gttcgtgctt gacctgctgc cttatgtatg tctgtggttg actggttggt cagggtcatc 464
 gtacttggct atcgtagctg cacgcactca gtcctgtac gaattacgac aataagctcg 524
 tgacctgaat aaaacttctt cgtaatacta aaaaaaaaaa aaaaaaaaaa 574

<210> 4
 <211> 93
 <212> PRT
 <213> Zea mays

<400> 4
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 1 5 10 15
 Val Ala Pro Ala Gly Phe Gly Arg His Gly Gly Gly Val Gln Gln His
 20 25 30
 Val Val Lys Glu Lys Phe Glu Glu Val Asp Thr Val Ser Arg Ala Gly
 35 40 45
 Ala Asn His His His His His Gly His His Gly Gly His Gly Phe Val
 50 55 60
 Val Arg Glu Thr Arg Val Glu Glu Asp Ile Asn Thr Cys Thr Gly Glu
 65 70 75 80
 Val His Glu Arg Arg Glu Ser Phe Leu Ala Arg Ala Asn
 85 90

<210> 5
 <211> 577
 <212> DNA
 <213> Zea mays

<220>
 <221> CDS
 <222> (99)...(377)

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 acgggcgctg cgcacagaca caccaagcgt cggcacca atg gct tac tac cag gag 116
 Met Ala Tyr Tyr Gln Glu
 1 5

gtg gac tac tgc tcg gag gag gtg agg tcg gtg gcc ccg gcc ggc ttc 164
 Val Asp Tyr Cys Ser Glu Glu Val Arg Ser Val Ala Pro Ala Gly Phe
 10 15 20

ggc cgc cac ggc ggc ggc gtc cag cag cac gtc gtc aag gag aag ttc 212
 Gly Arg His Gly Gly Gly Val Gln Gln His Val Val Lys Glu Lys Phe
 25 30 35

10	15	20	
ggc cgc cac gga ggc ggc gtc	cag cag cac gtc gtc aag gag aag ttc		212
Gly Arg His Gly Gly Gly Val	Gln Gln His Val Val Lys Glu Lys Phe		
25	30	35	
gag gag gtc gac acg gtc tca cgc gcc ggc gcc aac cac cac cac cac			260
Glu Glu Val Asp Thr Val Ser Arg Ala Gly Ala Asn His His His His			
40	45	50	
cac cat ggt cac cac ggc ggc cac ggc ttc gtg gtg cgc gag acc agg			308
His His Gly His His Gly Gly His Gly Phe Val Val Arg Glu Thr Arg			
55	60	65	70
gtc gag gag gac atc aac acc tgc acc ggc gag gtc cac gag cgc agg			356
Val Glu Glu Asp Ile Asn Thr Cys Thr Gly Glu Val His Glu Arg Arg			
75	80	85	
gag agc ttc ctc gcc agg gct aac tgagccgccc ggcggccggc atccacgccc			410
Glu Ser Phe Leu Ala Arg Ala Asn			
90			
gttcgtgcct gcttgcgtgc cttatgtatg tctgtggttg actggttggtg cagggtcatc			470
gtacttggct atcgtacgtg cacgcactca gtcctgtac gaattacgac aataagctcg			530
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<212> PRT			
<213> Zea mays			
<400> 8			
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20 25 30			
Val Val Lys Glu Lys Phe Glu Glu Val Asp Thr Val Ser Arg Ala Gly			
35 40 45			
Ala Asn His His His His His Gly His His Gly Gly His Gly Phe			
50 55 60			
Val Val Arg Glu Thr Arg Val Glu Glu Asp Ile Asn Thr Cys Thr Gly			
65 70 75 80			
Glu Val His Glu Arg Arg Glu Ser Phe Leu Ala Arg Ala Asn			
85 90			
<210> 9			
<211> 529			
<212> DNA			
<213> Zea mays			
<220>			
<221> CDS			
<222> (53) ... (331)			
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		Met Ala	

<210> 12
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 <212> DNA
 <213> Zea mays

<400> 12
 cgggcggctc agttagccc

19

<210> 13
 <211> 348
 <212> DNA
 <213> Oryza sativa

<220>
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 <222> (52)...(348)

<221> misc_feature
 <222> (1)...(348)
 <223> n = A,T,C or G

<400> 13
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 Met Ala
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cac tac cag gag gtg gac tac tgc tcg gag gag gtg agg tcg gtg acc 105
 His Tyr Gln Glu Val Asp Tyr Cys Ser Glu Glu Val Arg Ser Val Thr
 5 10 15

ccc acc ggc ggc ttc ctc ggc cgc ggc ggc gtg cag cag cag cac gtc 153
 Pro Thr Gly Gly Phe Leu Gly Arg Gly Gly Val Gln Gln Gln His Val
 20 25 30

gtc aag gag acg ttc cag gag atc gac ang tcc ggc tcc ggc cgg can 201
 Val Lys Glu Thr Phe Gln Glu Ile Asp Xaa Ser Gly Ser Gly Arg Xaa
 35 40 45 50

can cac aac cac aac cac ggc aac gac tac ctn atg gtg cgc gag acc 249
 Xaa His Asn His Asn His Gly Asn Asp Tyr Xaa Met Val Arg Glu Thr
 55 60 65

aag gtn gag gag gac ttt aac acc tgc acc ggc gag ttt cgc gag cgc 297
 Lys Xaa Glu Glu Asp Phe Asn Thr Cys Thr Gly Glu Phe Arg Glu Arg
 70 75 80

aan aag gag ctt tcc tgc tna agt ccg act tna tcg aac ctg ctg tgt 345
 Xaa Lys Glu Leu Ser Cys Xaa Ser Pro Thr Xaa Ser Asn Leu Leu Cys
 85 90 95

gta
 Val 348

<210> 14
 <211> 99

<212> PRT
 <213> Oryza sativa
 <220>
 <221> VARIANT
 <222> (1)...(99)
 <223> Xaa = Any Amino Acid

<400> 14
 Met Ala His Tyr Gln Glu Val Asp Tyr Cys Ser Glu Glu Val Arg Ser
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 Val Thr Pro Thr Gly Gly Phe Leu Gly Arg Gly Gly Val Gln Gln Gln
 20 25 30
 His Val Val Lys Glu Thr Phe Gln Glu Ile Asp Xaa Ser Gly Ser Gly
 35 40 45
 Arg Xaa Xaa His Asn His Asn His Gly Asn Asp Tyr Xaa Met Val Arg
 50 55 60
 Glu Thr Lys Xaa Glu Glu Asp Phe Asn Thr Cys Thr Gly Glu Phe Arg
 65 70 75 80
 Glu Arg Xaa Lys Glu Leu Ser Cys Xaa Ser Pro Thr Xaa Ser Asn Leu
 85 90 95
 Leu Cys Val

<210> 15
 <211> 591
 <212> DNA
 <213> Oryza sativa

<220>
 <221> CDS
 <222> (61)...(333)
 <221> misc_feature
 <222> (1)...(591)
 <223> n = A,T,C or G

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 atg gct cac tac cag gag gtg gac tac tgc tcg gag gag gtg agg tcg 108
 Met Ala His Tyr Gln Glu Val Asp Tyr Cys Ser Glu Glu Val Arg Ser
 1 5 10 15
 gtg acc ccc acc ggc ggc ttc ctc ggc cgc ggc ggc gtg cag cag cag 156
 Val Thr Pro Thr Gly Gly Phe Leu Gly Arg Gly Gly Val Gln Gln Gln
 20 25 30
 cac gtc gtc aag gag acg ttc cag gag atc gac agg tcc ggc tcc ggc 204
 His Val Val Lys Glu Thr Phe Gln Glu Ile Asp Arg Ser Gly Ser Gly
 35 40 45
 cgc cac cac cac aac cac aac cac ggc aac gac tac ctg atg gtg cgc 252
 Arg His His His Asn His Asn His Gly Asn Asp Tyr Leu Met Val Arg
 50 55 60
 gag acc aag gtg gag gag gac ttc aac acc tgc acc ggc gag ttc cgc 300
 Glu Thr Lys Val Glu Glu Asp Phe Asn Thr Cys Thr Gly Glu Phe Arg

203220-560500T

65	70	75	80												
gag cgc aag cag agc ttc ctg ctc aag tcc gac tgatcgaacc tgctgtgtgt				353											
Glu Arg Lys Gln Ser Phe Leu Leu Lys Ser Asp															
	85	90													
accctgttac gtacgtacgt atatgtgtgc ccgtacgtag tcgtggtggt catgtggtgg				413											
cttagctcta cgtgtatatc gtgcgtgcgt gtgtacgtgc gtacacggag cttagctaata				473											
tagcaccttc ttccctgtgc gattactacg aacggagagg gggggtgtat gaaaaataat				533											
tcgtgacctg atatataanc tgyctaatac acggtaaaaa aaaaaaaaaa aaagaaaa				591											
<210> 16															
<211> 91															
<212> PRT															
<213> Oryza sativa															
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Val	Thr	Pro	Thr	Gly	Gly	Phe	Leu	Gly	Arg	Gly	Gly	Val	Gln	Gln	Gln
			20					25					30		
His	Val	Val	Lys	Glu	Thr	Phe	Gln	Glu	Ile	Asp	Arg	Ser	Gly	Ser	Gly
			35				40					45			
Arg	His	His	His	Asn	His	Asn	His	Gly	Asn	Asp	Tyr	Leu	Met	Val	Arg
	50					55				60					
Glu	Thr	Lys	Val	Glu	Glu	Asp	Phe	Asn	Thr	Cys	Thr	Gly	Glu	Phe	Arg
65					70				75					80	
Glu	Arg	Lys	Gln	Ser	Phe	Leu	Leu	Lys	Ser	Asp					
			85						90						
<210> 17															
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<212> DNA															
<213> Triticum aestivum															
<220>															
<221> CDS															
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<222> (1)...(524)															
<223> n = A,T,C or G															
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				Met											
				1											
gct tac tac cag gag gtg gac tac tgc tcg gag gag gtg agg tcg gtg				107											
Ala Tyr Tyr Gln Glu Val Asp Tyr Cys Ser Glu Glu Val Arg Ser Val															
		5		10											
				15											
gcc ccg gcc ggc ttc ggc cgc cac gga ggc ggc gtc cag cag cac gtc				155											
Ala Pro Ala Gly Phe Gly Arg His Gly Gly Gly Val Gln Gln His Val															
		20		25											
				30											
gtc aag gag aag ttc gag gag gtc gac acg gtc tca cgc gcc gcc gcc				203											

Val	Lys	Glu	Lys	Phe	Glu	Glu	Val	Asp	Thr	Val	Ser	Arg	Ala	Gly	Ala		
35							40				45						
aac	cac	cac	cac	cac	cac	cat	ggt	cac	cac	ggc	ggc	cac	ggc	ttc	gtg		251
Asn	His	His	His	His	His	His	Gly	His	His	Gly	Gly	His	Gly	Phe	Val		
50						55				60				65			
gtg	cgc	gag	acc	agg	gtc	gag	gag	gac	atc	aac	acc	tgc	acc	ggc	gag		299
Val	Arg	Glu	Thr	Arg	Val	Glu	Glu	Asp	Ile	Asn	Thr	Cys	Thr	Gly	Glu		
				70				75						80			
gtc	cac	gag	cgc	agg	gag	agc	ttc	ctc	gcc	agg	gct	aac	tgagccgccc				348
Val	His	Glu	Arg	Arg	Glu	Ser	Phe	Leu	Ala	Arg	Ala	Asn					
				85				90									
ggcggccggc	atccacgccc	gttcgtgcct	gcctgcgtgc	cytatstatg	tctgtggttg												408
actggttg	caaggtcac	ntacttggt	atcgtagts	mascactcrs	tcctgtmcaa												468
ttacacaata	rtctctgacc	tgaataaaac	tctcstatac	taaaaaaaaa	araaaaa												524

<210> 18
 <211> 94
 <212> PRT
 <213> Triticum aestivum

Met	Ala	Tyr	Tyr	Gln	Glu	Val	Asp	Tyr	Cys	Ser	Glu	Glu	Val	Arg	Ser		
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Val	Ala	Pro	Ala	Gly	Phe	Gly	Arg	His	Gly	Gly	Gly	Val	Gln	Gln	His		
			20				25						30				
Val	Val	Lys	Glu	Lys	Phe	Glu	Glu	Val	Asp	Thr	Val	Ser	Arg	Ala	Gly		
		35					40					45					
Ala	Asn	His	His	His	His	His	His	Gly	His	His	Gly	Gly	His	Gly	Phe		
50						55					60						
Val	Val	Arg	Glu	Thr	Arg	Val	Glu	Glu	Asp	Ile	Asn	Thr	Cys	Thr	Gly		
65				70					75						80		
Glu	Val	His	Glu	Arg	Arg	Glu	Ser	Phe	Leu	Ala	Arg	Ala	Asn				
				85				90									

<210> 19
 <211> 584
 <212> DNA
 <213> Triticum aestivum

<220>
 <221> CDS
 <222> (46)...(321)

<221> misc_feature
 <222> (1)...(584)
 <223> n = A,T,C or G

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							Met	Ala	His	Phe							
							1										
cag	gag	gtg	gac	tac	tgc	tcg	gag	gag	gtg	agg	gcg	gtg	ggc	tac	ccg		105

Gln	Glu	Val	Asp	Tyr	Cys	Ser	Glu	Glu	Val	Arg	Ala	Val	Gly	Tyr	Pro		
5					10					15					20		
gcc	cgc	cgc	ggc	tgc	ggc	ggc	gtg	cag	gag	cac	atc	gtc	aag	gag	acg	153	
Ala	Arg	Arg	Gly	Cys	Gly	Gly	Val	Gln	Glu	His	Ile	Val	Lys	Glu	Thr		
				25					30					35			
ttc	gtg	cag	gag	ttc	gac	acc	gcc	ggc	cgc	cgc	cay	ggg	cac	cac	ggg	201	
Phe	Val	Gln	Glu	Phe	Asp	Thr	Ala	Gly	Arg	Arg	Xaa	Gly	His	His	Gly		
			40					45					50				
cac	cac	ggc	cgy	ggc	tcy	ggg	cac	ttc	gag	gtg	cgc	gag	agc	aag	cts	249	
His	His	Gly	Xaa	Gly	Xaa	Gly	His	Phe	Glu	Val	Arg	Glu	Ser	Lys	Xaa		
		55					60					65					
gar	gag	gac	atc	aac	acc	cgc	acc	ggs	gag	ttc	cac	gaa	cgc	aag	gga	297	
Xaa	Glu	Asp	Ile	Asn	Thr	Arg	Thr	Xaa	Glu	Phe	His	Glu	Arg	Lys	Gly		
	70					75					80						
aay	ttc	tcs	tcc	aag	gcc	gat	gac	trasyt	waac	ayttm	cggac	acact	acatg			351	
Xaa	Phe	Xaa	Ser	Lys	Ala	Asp	Asp										
85					90												
tgtgtawatt	mygsattcaa					mattatatgt			atgtktkatg			ttkcccamat		ccywtacctt			411
tgcaagctkc	cttyttggcg					gsaacaaccc			yatyggtgcsc			csttcaacct		taataancct			471
ancntgaaca	gataaactnc					tgatagtnnt			aaaaaaaggg			ggccgtacca		atcgctatat			531
gggtcttttagc	cctncggcgt					cgttncactc			tnctggaaan			ctggtacact		tan			584

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<210> 20
<211> 92
<212> PRT
<213> Triticum aestivum
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<210> 21
<211> 436
<212> DNA
<213> Triticum aestivum
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Met
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gcg cac ttc cag gag gtg gac tac tgc tcg gag gag gtg agg gcg gtg 104
Ala His Phe Gln Glu Val Asp Tyr Cys Ser Glu Glu Val Arg Ala Val
5 10 15

ggc aac ccg gcc cgc cgc ggc ggc ggc gtg cag gag cac atc gtc aag 152
Gly Asn Pro Ala Arg Arg Gly Gly Gly Val Gln Glu His Ile Val Lys
20 25 30

gag acg ttc gtg cag gag ttc gac acc tcc ggc cgc cgc cac ggt cac 200
Glu Thr Phe Val Gln Glu Phe Asp Thr Ser Gly Arg Arg His Gly His
35 40 45

cac ggt cac cac ggc cgc ggc tct ggt cac ttc gag gtg cgc gag agc 248
His Gly His His Gly Arg Gly Ser Gly His Phe Glu Val Arg Glu Ser
50 55 60 65

agg ctc gag gag gac ttc aac acc cgc acc ggg gag ttc cac gag cgc 296
Arg Leu Glu Glu Asp Phe Asn Thr Arg Thr Gly Glu Phe His Glu Arg
70 75 80

aag gag aac ttc gtc gtc agg gcc gat gac tgagcttaca cgtaacggag 346
Lys Glu Asn Phe Val Val Arg Ala Asp Asp
85 90

cacactacga tgtgtgtata tgtatgcatg tcagcagtat atgtatgtgt gatgttgccg 406
acagtcgtat agcgtatgca ggcgtgcgtg 436

<210> 22
<211> 91
<212> PRT
<213> Triticum aestivum

<400> 22
Met Ala His Phe Gln Glu Val Asp Tyr Cys Ser Glu Glu Val Arg Ala
1 5 10 15
Val Gly Asn Pro Ala Arg Arg Gly Gly Gly Val Gln Glu His Ile Val
20 25 30
Lys Glu Thr Phe Val Gln Glu Phe Asp Thr Ser Gly Arg Arg His Gly
35 40 45
His His Gly His His Gly Arg Gly Ser Gly His Phe Glu Val Arg Glu
50 55 60
Ser Arg Leu Glu Glu Asp Phe Asn Thr Arg Thr Gly Glu Phe His Glu
65 70 75 80
Arg Lys Glu Asn Phe Val Val Arg Ala Asp Asp
85 90

<210> 23
<211> 584
<212> DNA
<213> Triticum aestivum

<220>
<221> CDS

<222> (46)...(321)

<221> misc_feature

<222> (1)...(584)

<223> n = A,T,C or G

<400> 23

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Met Ala His Phe
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Gln Glu Val Asp Tyr Cys Ser Glu Glu Val Arg Ala Val Gly Tyr Pro
5 10 15 20

gcc cgc cgc ggc tgc ggc ggc gtg cag gag cac atc gtc aag gag acg 153
Ala Arg Arg Gly Cys Gly Gly Val Gln Glu His Ile Val Lys Glu Thr
25 30 35

ttc gtg cag gag ttc gac acc gcc ggc cgc cgc cay ggt cac cac ggt 201
Phe Val Gln Glu Phe Asp Thr Ala Gly Arg Arg Xaa Gly His His Gly
40 45 50

cac cac ggc cgy ggc tcy ggt cac ttc gag gtg cgc gag agc aag cts 249
His His Gly Xaa Gly Xaa Gly His Phe Glu Val Arg Glu Ser Lys Xaa
55 60 65

gar gag gac atc aac acc cgc acc ggs gag ttc cac gaa cgc aag gga 297
Xaa Glu Asp Ile Asn Thr Arg Thr Xaa Glu Phe His Glu Arg Lys Gly
70 75 80

aay ttc tcs tcc aag gcc gat gac trasytwaac aytmcggac acactacatg 351
Xaa Phe Xaa Ser Lys Ala Asp Asp
85 90

tgtgtawatt mygsattcaa mattatatgt atgttkatg ttkeccamat ccywtacctt 411
tgcaagctkc cttyttggcg gsaacaaccc yatygtgcsc csttcaacct taataancct 471
ancntgaaca gataaactnc tgatagtnnt aaaaaaaggg ggccgtacca atcgctatat 531
ggctcttagc cctncggcgt cgttncactc tnttggaan ctggtacact tan 584

<210> 24

<211> 92

<212> PRT

<213> Triticum aestivum

<400> 24

Met Ala His Phe Gln Glu Val Asp Tyr Cys Ser Glu Glu Val Arg Ala
1 5 10 15
Val Gly Tyr Pro Ala Arg Arg Gly Cys Gly Gly Val Gln Glu His Ile
20 25 30
Val Lys Glu Thr Phe Val Gln Glu Phe Asp Thr Ala Gly Arg Arg His
35 40 45
Gly His His Gly His His Gly Arg Gly Ser Gly His Phe Glu Val Arg
50 55 60
Glu Ser Lys Leu Glu Glu Asp Ile Asn Thr Arg Thr Gly Glu Phe His
65 70 75 80
Glu Arg Lys Gly Asn Phe Ser Ser Lys Ala Asp Asp

<210> 25
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Designed oligonucleotide based upon an adaptor
used for cDNA library construction and poly(dT) to
remove clones which have a poly(A) tail but no
cDNA insert.

<400> 25
tcgaccacg cgtccgaaaa aaaaaaaaaa aaaaaa

36

10090025-02200